

AIRMETS SIGMETS

CONVECTIVE SIGMETS

WHY?

WHAT?

WHERE?

HOW?

WHEN?

AIRMETS

(Airmen's Meteorological Advisories)

An AIRMET (AIRman's METeorological Information) advises of weather that maybe hazardous, other than convective activity, to single engine, other light aircraft, and Visual Flight Rule (VFR) pilots. However, operators of large aircraft may also be concerned with these phenomena. The items covered are:

AIRMET Sierra (IFR):

- •Ceilings less than 1000 feet and/or visibility less than 3 miles affect of the area at one time.
- Extensive mountain obscuration

AIRMET Tango (Turbulence):

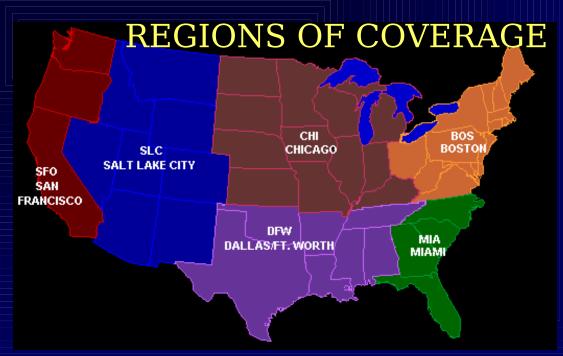
- Moderate turbulence
- Sustained surface winds of 30 knots or more at the surface

AIRMET Zulu (Icing):

- Moderate icing
- Freezing levels

These AIRMET items are considered to be *widespread* because they not be forecast to affect an area of at least 3000 square miles at any on if the total area to be affected during the forecast period is very large, only a small portion of this total area would be affected at any one time.

AIRMETs are routinely issued for 6 hour periods beginning at 0145 U Daylight Time and at 0245 UTC during Central Standard Time. AIRMI amended as necessary due to changing weather conditions or issuance of a SIGMET.



	AIRMET Tango (Turbulence and Strong Surface WA2T MIAT WA 301945
AIRMET Sierra (IFR and Mountain	AIRMET TANGO UPDT 4 FOR TURB VALID UNTIL 010200
Obscuration)	AIRMET TURBFL AND CSTL WTRS
WA2S	FROM OMN TO 110E OMN TO 130SE MIA TO 30SW EYW TO 30ESE SRQ TO OMN
MIAS WA 301945 AIRMET SIERRA UPDT 4 FOR IFR VALID UNTIL 010200	OCNL MOD TURB BLW 150 ASSOCD WITH MOD ELY WND FLOW. CONDS 00Z-02Z.
NONE EXP.	WA2T MIAT WA 301946 COR AIRMET TANGO UPDT 4 FOR TURB VALID UNTIL 010200
MIAS WA 301945	AIRMET TURBFL AND CSTL WTRSCOR
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NONE EXP.	00Z-02Z.
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OCNL MOD TURB BLW 150 ASSOCD WITH MOD ELY	
WND FLOW. CONDS	
00Z-02Z. =	AIRMET Zulu (Icing and Freezing Level) WA2Z
MIAZ WA 301945	WA2Z MIAZ WA 301945
AIRMET ZULU UPDT 3 FOR ICE AND FRZLVL VALID	AIRMET ZULU UPDT 3 FOR ICE AND FRZLVL VALID UNTIL 010200
UNTIL 010200	AIRMET ICEFL AND CSTL WTRS
AIRMET ICEFL AND CSTL WTRS	FROM 70ESE OMN TO 70ENE PBI TO 130SE MIA TO 30S EYW TO 80WSW
FROM 70ESE OMN TO 70ENE PBI TO 130SE MIA TO	PIE TO 70ESE OMN OCNL MOD RIME/MXD ICGICIP BTN 120 AND FL250. CONDS CONTG BYD
30S EYW TO 80WSW	OCNL MOD RIME/MXD ICGICIP BIN 120 AND FL230. CONDS CONIG BID 02Z THRU 08Z.
PIE TO 70ESE OMN OCNL MOD RIME/MXD ICGICIP BTN 120 AND FL250.	
CONDS CONTG BYD	TRZEVE050-120 TITKOT.
02Z THRU 08Z.	
ED7137 - 000 400 THD1T	

SIGMETS

(Significant Meteorological Advisories)

METS are in-flight advisories that warn of internationally specified wea na of an intensity and/or extent that concerns pilots and operators of al

SIGMETS ARE ISSUED FOR THE FOLLOWING:

- Severe icing
- Severe or extreme turbulence
- Duststorms and sandstorms lowering visibilities to less that
- Volcanic Ash

These SIGMET items are considered to be *widespread* because they or be forecast to affect an area of at least 3000 square miles at any of However, if the total area to be affect during the forecast period is verbe that only a small portion of this total area would be affected at any

SIGMETS are issued for 6 hour periods for conditions associated with and 4 hours for all other events. If conditions persist beyond the fore the SIGMET is updated and reissued.

EXAMPLE

SLCR WS 302055
SIGMET ROMEO 2 VALID UNTIL 010055
ID MT WA OR
FROM BLI TO FCA TO TWF TO OED TO BLI
OCNL SEV TURB BLW 160 ASSOCD MOD/STG WLY/SWLY
FLOW. LLWS IS ALSO LKLY. CONDS MOVG EWD AND CO
BYD 0055Z. SEE SIGMET ROMEO 1 OVR WA AND OR FO
PREVIOUS ISSUANCE.
DSN

CONVECTIVE SIGMETS

(Convective Significant Meteorological)

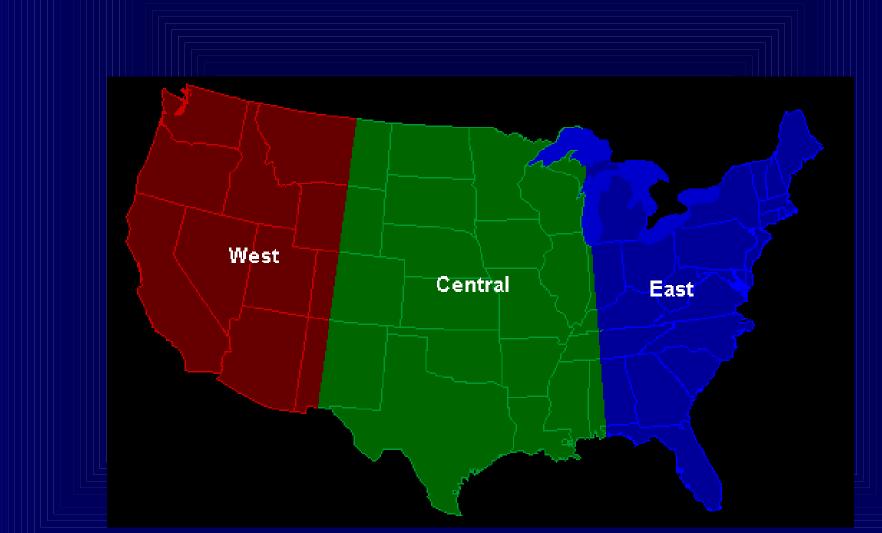
Convective SIGMETS are issued, in the United States, for any of the

- Severe Thunderstorm due to:
 - ✓ Surface winds greater than or equal to 50 knots
 - ✓ Hail at the surface greater than or equal to ¾ inches i
 - ✓ Tornadoes
- > Embedded Thunderstorms
- Line of Thunderstorms
- Thunderstorms greater than or equal to VIP level 4 affecting of an area at least 3,000 square miles.

- * Any Convective SIGMET implies severe or greater turbulence, severe low-level wind shear.
- *A Convective SIGMET may be issued for any convective situation w forecaster feels is hazardous to all categories of aircraft.

tive SIGMETS are issued for the Eastern (E), Central ©, and Westates. The areas do overlap to cover most cases when phenomenates.

The boundaries.



Example

WSTC
MKCC WST 010055
CONVECTIVE SIGMET 1C
VALID UNTIL 0255Z
IL
FROM 20NNW STL-30S DEC60ESE STL-20NNW STL
DMSHG AREA TS MOV FROM

20020KT. TOPS TO FL290.

CONVECTIVE SIGMET 2C
VALID UNTIL 0255Z
TX
FROM 30ESE LBB-30ENE MAF
LINE SEV TS 25 NM WIDE MOV
FROM 34020KT. TOPS TO
FL450.
HAIL TO 2 IN...WIND GUSTS TO

Bulletins are issued at 55 min the hour. The text of a bulletin Of either an observation and a or just a forecast. The forecas for up to 2 hours.

CONVECTIVE SIGMET 3C VALID UNTIL 0255Z MN IA NE FROM 20SE RWF-50N MCW-50NNW OVR-60NE OBH-20SE RWF

ADEA OFFICE MEASURE ONE

50 KT POSS.

